

# LCD Flat Panel

## LCD-2050

### Operation Manual

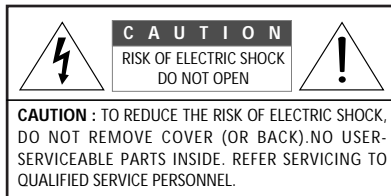


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# Important Information

**WARNING :** To reduce the risk of fire or electric shock hazard, do not expose this appliance to rain or moisture.



The lightning flash with arrow-head symbol, within an equilateral triangle, is intended to warn the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk electric shock.



The exclamation point within an equilateral triangle is intended to warn the user of the presence of important operating and servicing instructions in the literature accompanying the product.

**WARNING :** FCC Regulations state that any unauthorized change or modification to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment U.S.A. only

## NOTE TO CATV SYSTEM INSTALLER :

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electrical Code that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

This product utilizes tin-lead solder, and fluorescent lamp containing a small amount of mercury. The disposal of these materials should be regulated due to environmental consideration. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance : [www.eia.org](http://www.eia.org)

# Safety Precautions

## Dear customer

Thank you for your purchase of the LCD COLOR TV product. To ensure safety and many years of trouble-free operation of the TV, please read all these instructions carefully and follow all warnings before using this product.

### 1. READ INSTRUCTIONS

Read all of these instructions carefully and follow all instructions marked on the TV equipment.

### 2. KEEP THIS MANUAL

Keep this manual in a safe place for later use.

### 3. CLEANING

Unplug this TV equipment from the AC power outlet before cleaning. Do not use liquid cleaner or aerosol cleaners. Use a soft and dry cloth for cleaning.



### 4. ATTACHMENTS

Do not use attachments not recommended by the TV equipment manufacturer as they may result in the risk of fire, electric shock or other injury.



### 5. WATER AND MOISTURE

Do not place this TV equipment near water, for example, near bathtub, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, or the like.



### 6. HEAT

Keep the TV equipment away from the heat sources such as radiator, heater, stoves and other heat-generating products



### 7. SETTING

Do not place this TV on unstable cart, stand, or table. Placing the TV on an unstable base can cause the TV to fall, resulting in serious personal injuries as well as damage to the TV. Use only a cart, stand, bracket or table recommended by the manufacturer or salesperson.



### 8. WALL OR CEILING MOUNTING

When mounting the product on a wall or ceiling, be sure to install the product with using the designated mounting tool according to the method recommended by the salesperson.



### 9. VENTILATION

Vents and openings in the cabinet are designed to provide for ventilation, to ensure reliable operation of the TV equipment protecting it from overheating, so these openings must not be blocked or covered. Do not place the TV on a bed, sofa, rug or other similar surface, because they can block the openings. This TV equipment should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

# Safety Precautions

## 10. OBJECT AND LIQUID ENTRY

Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock or short internal parts. For the same reason, do not spill water or liquid on the TV.

## 11. POLARIZATION

This TV equipment is provided with a polarized alternating current plug (featuring a 3-conductor plug). This plug will fit into power outlet only one way. If you are unable to insert the plug into it, consult with electrician about the power cord.

**Caution :** To prevent electric shock, match wide blade of plug to wide slot, fully insert.

**Attention :** Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

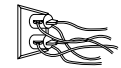
## 12. POWER SOURCES

This TV equipment should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your TV dealer or local power company.



## 13. OVERLOADING

Do not overload AC outlets or extension cords. Overloading can result in fire or electric shock.



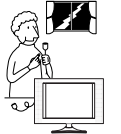
## 14. POWER-CORD PROTECTION

The power cord must be routed properly to prevent people from stepping on it or objects from resting on them.



## 15. LIGHTNING

For added protection for this TV equipment during a lightning storm, or when it is left unattended and unused for long period time, unplug it from the power outlet and disconnect the antenna or cable system. This will be prevent damage to the TV due to lightning and power-line surge.



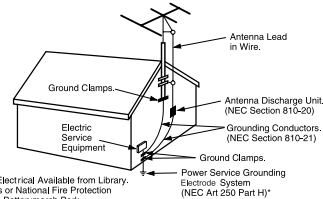
## 16. LCD PANEL GLASS

The LCD panel used in this product is made of glass. Therefore, it can be broken when the product is dropped or gets shock. Be careful not to be injured by glass pieces in case the panel is broken.

## 17. OUTSIDE ANTENNA

An outside antenna system should not be located in the vicinity of overhead power line or other electric light or power circuits or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

Example of Antenna Grounding



\* National Electrical Available from Library: Book stores or National Fire Protection Association Batterymarch Park, Quincy MA 02269

\* NEC: National Electrical Code

## 17. GROUNDING

If an outside antenna or cable system is connected to the TV receiver, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges.

## 18. SERVICING

Do not attempt to service this TV equipment yourself. Opening the covers may expose you to high voltage or other dangerous conditions. Refer all servicing to qualified personnel.



## 19. DAMAGE REQUIRING SERVICE

If any of the following conditions occurs, unplug the power cord from the AC outlet, and request a qualified service person to perform repairs.

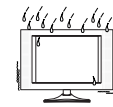
- (a) When the power cord or plug is damaged.
- (b) When a liquid has spilled on the TV or when objects have fallen into the TV.
- (c) When the TV has been exposed to rain or water.
- (d) When the TV does not operate properly as described in the operating instructions.



Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.



- (e) When the product has been dropped or damaged.
- (f) When the product displays an abnormal condition. Any noticeable abnormality in the product indicates that the product needs servicing.



## 20. REPLACEMENT PARTS

In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.



## 21. FOR LCD PANEL

The LCD panel is a very high technology product with 921,600 thin film transistors, giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green, or red. Please note that this does not affect the performance of your product.

# Standard Accessories

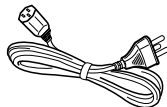
Make sure that the following accessories are provided with the product.



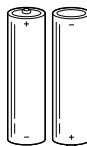
Operation manual



Remote control



AC power cord

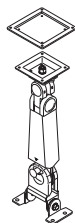


Size AAA Dry Battery (X2)

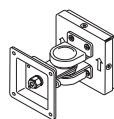
## Optional accessories



Earphone



Mounting-ceiling tool



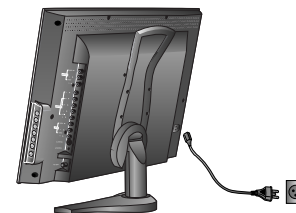
Mounting-wall tool

\* When you mount the TV on the wall, be sure to consult with sales person on methods of mounting.

# Connection

## Main Connection

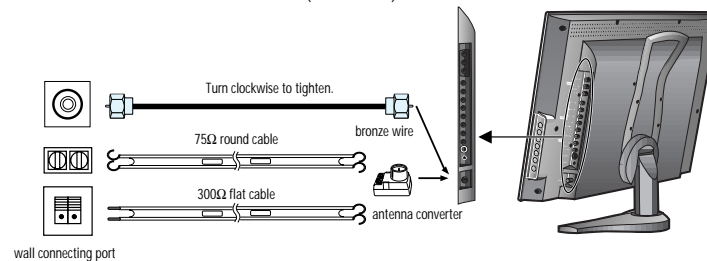
Plug the mains cable into the power socket with 100V - 240V AC, 50/60Hz.



## ANTENNA Connection

Standard Cable TV (CATV) and outdoor antenna hookup options:

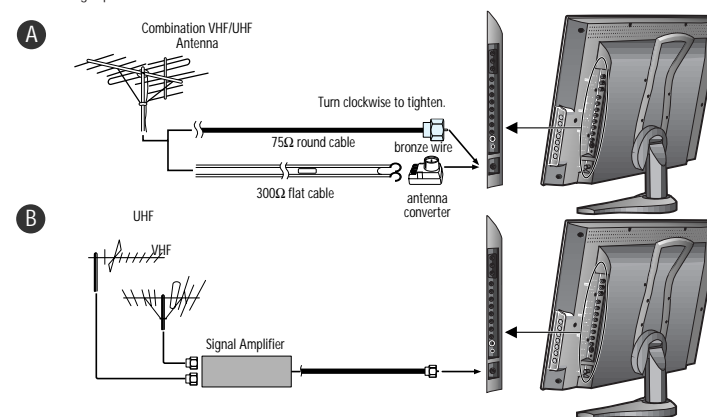
- 75-ohm coaxial cable connected to the ANT-IN terminal
- 300-ohm flat cable to an antenna converter (not included) and connected to the ANT-IN terminal



- Use one of the two following diagrams if you connect an outdoor antenna.

A : Using a VHF/UHF combination outdoor antenna.

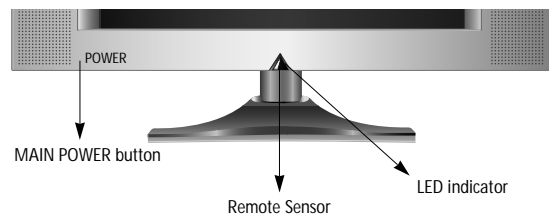
B : Using separate VHF and/or UHF outdoor antennas.



## Name of each part

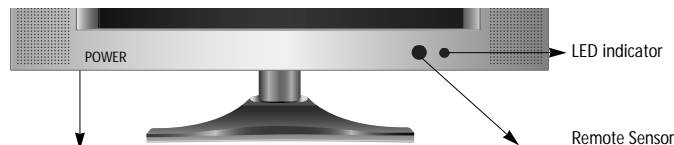
### Front Views for the WTN-20A2, WTN-20B2 and WTN-20C2

WTN-20A2



- Press MAIN POWER switch located on bottom/left side of TV. LED will turn red (Stand-by mode) or green (TV-on mode). The LED will turn off when power is turned off.

WTN-20B2/WTN-20C2



- Press MAIN POWER switch located on bottom/left side of TV. LED will turn red (Stand-by mode) or green (TV-on mode). The LED will turn off when power is turned off.

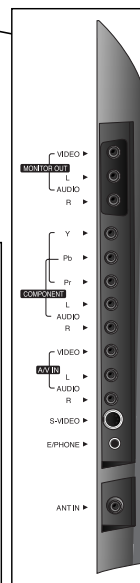
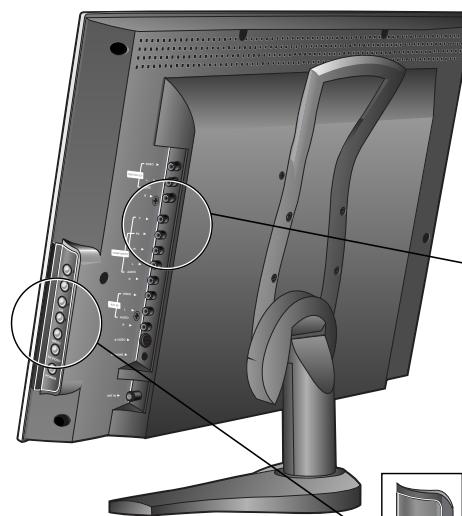
- To change the vertical angle of the TV set, tilt the screen up to 5° forward or 15° backward. The TV set can also be rotated 45° to left or right horizontally. Adjust the angle of the TV for comfortable viewing.

Stand-by mode uses minimal electricity!

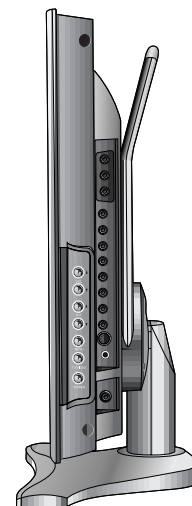


## Name of each part

### Rear View



### Side View(Right)



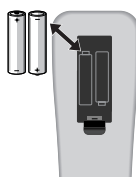
The buttons on the side of the TV have the same functions as buttons used on the remote control. Use instructions are in the Remote Control section of this manual.

## Preparation

### Inserting batteries into the remote control

Insert supplied batteries via the battery compartment on the back of the remote control.

Make sure polarity matches the (+) and (-) marks inside the compartment.



! .....

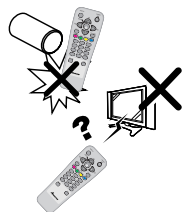
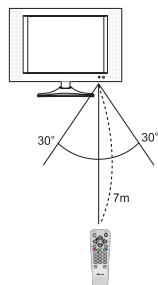
To avoid damage from possible battery leakage, remove the batteries during storage.

### Using the remote control unit

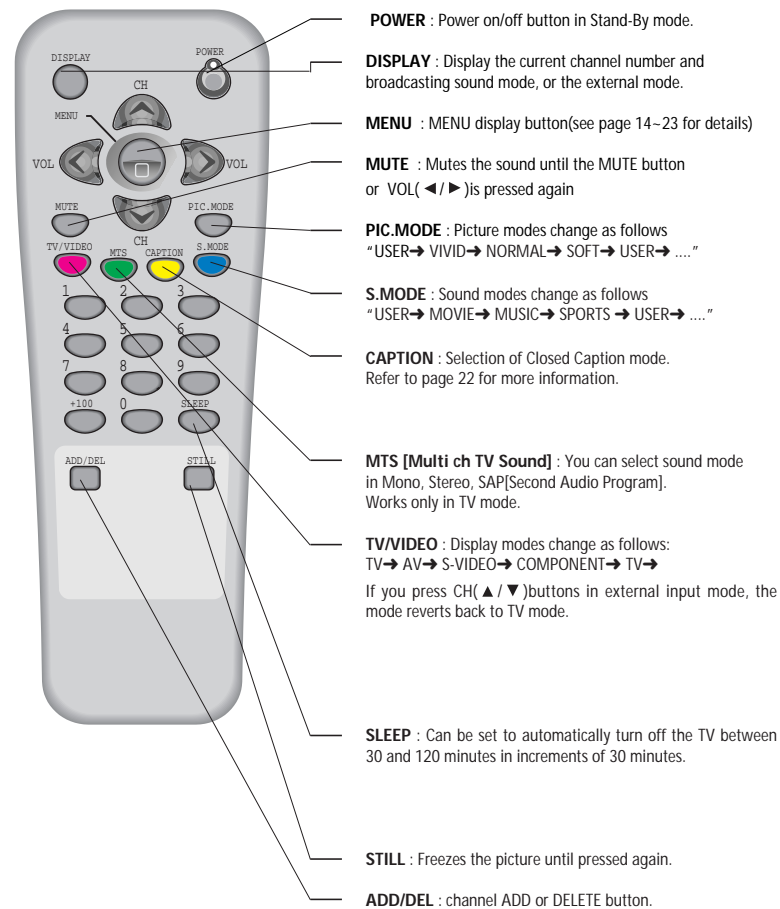
- Use the remote control by pointing it towards the remote sensor on the TV. Objects between the remote control and the sensor may disrupt operation.
- Effective range is 20 feet but is dependant on your viewing angle.
- Range can also be affected by direct sunlight on the TV's sensor.

### Cautions regarding remote control unit

- Do not expose remote to liquids, direct sunlight or shock.



## Remote control



## Using the MENU

Press MENU button on the Remote control to display as below.

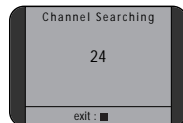


\* Select the item with CH up/down (▲ / ▼) and enter the subordinate items with VOL up (▶) button.

\* Save and exit the (previous) menu with MENU (■) button.

## Automatic Channel searching

1. Navigate to "Channel", press VOL up (▶) button to enter the subordinate items. (See above figure)
2. Press CH up/down (▲ / ▼) button to select "Air/Cable" item, and choose the proper mode in "Air or Cable" item by using VOL up/down (◀ / ▶) button.
3. Move the item to "Channel Search..." by pressing CH up/down (▲ / ▼) buttons and press VOL up (▶) button to operate the automatic channel search. (See right figure)



\* Wait until the automatic channel search is completed. If you press MENU (■) button during channel search, you will not add all available channels.

## Changing the Channel

Method 1. Changing channels with CH up/down (▲ / ▼) button on the Remote control.

**AIR** - Select channels 2 ~ 69 by pressing (▲ / ▼) buttons.

**CABLE** - Select channels 1 ~ 125 by pressing (▲ / ▼) buttons.

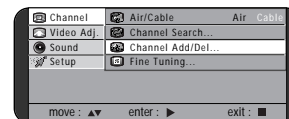
Method 2. Changing channels with digit buttons on the Remote control.

- i) Selecting 1-digit channel: Press the "0" button followed by the channel you wish to view
- ii) Selecting 2-digit channel: Press the first digit, then the second digit within 2 seconds
- iii) Selecting 3-digit channel: Press the +100 button first, then the next two digits

\* Selection channels, 1,70~125 with the (▲ / ▼) digit buttons only works in CATV mode.

## Channel Add/Del

1. Select "Channel Add/Del" sub item and press VOL up (▶) button to display "channel Add/Del" box as shown right figure.
2. Select the each desired channel with CH up/down (▲ / ▼) button and choose Add or Del with VOL up/down (◀ / ▶) button.
3. Press MENU (■) button to exit.



## Fine Tuning

- Channel frequency can change due to the signal in your area. Use the "Fine Tuning" menu to get a better signal.

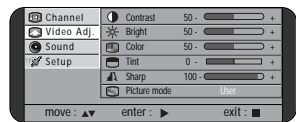
1. Select "Fine Tuning" menu, then press VOL up (▶) button to display "Fine Tuning" menu as shown in figure on below.
2. Select the channel you wish to fine tune and adjust the frequency with the VOL up/down (◀ / ▶) buttons
3. Press MENU (■) to exit.



- About channel number colors:
  - Channels with blue numbers on your TV screen are memorized channels found in the Auto Search
  - Channels with red numbers on your TV screen are skipped by Auto Search or were deleted in the "Channel Add/Del" menu
  - Channels with pink numbers on your TV screen are channels that have been "fine tuned"



Video Adjust



- 1. select "Video Adj" item and press VOL up (▶) button to enter sub item.
- 2. select item which you want adjust with VOL up/down(◀/▶) button.
- 3. press MENU(■) button to exit.



Item	Press ◀ button	Press ▶ button
Contrast	Decrease contrast	Increase contrast
Bright	Decrease brightness	Increase brightness
Color	Decrease color	Increase color
Tint	Reduce red	Reduce green
Sharp	Soft picture	Sharp picture

\*Picture mode : Choose a proper picture quality.

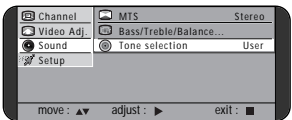
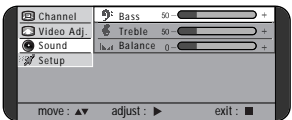
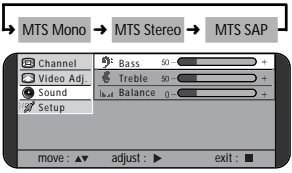
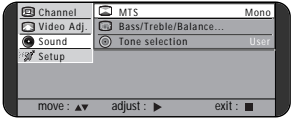
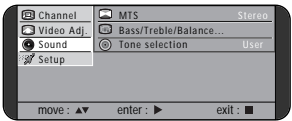
Picture mode	
User	Custom settings by user.
Vivid	Used for bright indoor light.
Normal	Used for normal indoor light
Soft	Used for dark indoor light

Sound Adjust

- 1. Select "Sound" item as shown right figure.
- 2. press VOL up(▶) button to enter sub items.
- 3. Select item which you want to control.

\*Descriptions of Sound mode

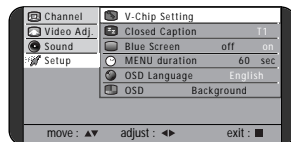
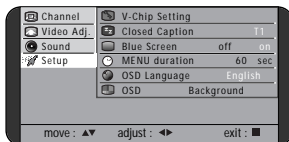
Items		Descriptions
MTS	Mono	Monophonic sound mode.
	Stereo	Stereo sound mode in stereo broadcasting program.
	SAP	Second Audio Program
* When transmission signal is weak or broadcasting condition is not good, sound might be cut off temporarily. This type of malfunction is not caused by TV set. (In this case, make the MTS mode to Mono.)		
* MTS button works only in TV mode.		
* You can select the mode directly with MTS button on the remote control as shown right figure.		
Bass	Adjust the bass sound. (◀Decrease bass, ▶Increase bass)	
Treble	Adjust the treble sound. (◀Decrease treble, ▶Increase treble)	
Balance	control the sound output of left and right speaker. (◀Decrease right speaker sound, ▶Decrease left speaker sound)	
Tone Selection	User	Sound mode set Bass and Treble by user.
	Movie	Sound mode proper in movie.
	Music	Sound mode proper in music program.
	Sports	Sound mode proper in sports program.
* You can select the Tone selection directly with S.MODE button on the remote as show right figure.		



Use the S-Mode button on your remote control to select the tone!



## Descriptions of Setup



### \* V-Chip Setting...

This function lets parents control the content of what their children watch on TV based on FCC data.

Restrictions are based on MPAA ratings, TV Parental Guidelines, MPAA rating restrictions by age, and TV Parental Guideline restrictions by age and content.

Accessing the V-Chip setting is password protected. See page 19 for password information.

#### 1. TV Channel Blocking [TV Parental Guidelines] : age and content based

Rating	FV (Fantasy Violence)	V (Violence)	S (Sexual Situation)	L (Adult Language)	D (Sexually Suggestive Dialog)
TV-Y (All Children)	✓	✓	✓	✓	✓
TV-Y7 (Direct to Older Children)	○	✓	✓	✓	✓
TV-G (General Audience)		✓	✓	✓	✓
TV-PG (Parental Guidance Suggested)		○	○	○	○
TV-14 (Parents Strongly Cautioned)		○	○	○	○
TV-MA (Mature Audience Only)		○	○	○	○

✓ : The content rating can be set, but this rating is not normally broadcast by TV stations

○ : The content rating can be set.

### \* Example of TV Parental Guidelines (TV Channel Blocking) rating

- If TV-Y7 in the age-based rating is set to Block, this will automatically block the higher ratings TV-G, TV-PG, TV-14 and TV-MA. In addition, all of Content base Rating items are automatically blocked unless you set the Content base Rating : FV, D, L, S, V, DL(D+L), DS(D+S), DV(D+V), LS(L+S), LV(L+V), SV(S+V), DLS(D+L+S), DLV(D+L+V), DSV(D+S+V), LSV(L+S+V), DLSV(D+L+S+V).

- Age-based ratings can be modified by the content-based ratings, but only in the combinations indicated by an ✓ in the table above and sentence above.
- Setting a lower age-based rating blocks the higher age-based ratings regardless of the content rating settings.

## 2. Movie Blocking [MPAA rating] : only age-based

Rating	Descriptions
G	General audiences. All ages admitted.
PG	Parental Guidance suggested. Some material may not be suitable for children.
PG-13	Parental strongly cautioned. Some material may be inappropriate for children under 13.
R	Restricted. Under 17 requires accompanying parent or adult guardian.
NC-17	No one 17 and under admitted.
X	X is older rating that is unified with NC-17 but may be encoded in the data of older movies.

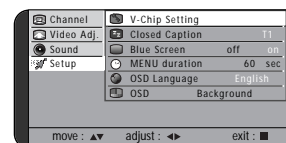
\*Example of MPAA rating

If PG in the MPAA rating is blocked, higher ratings (PG-13, R, NC-17 and X) are blocked automatically.

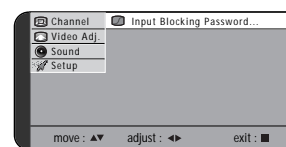
So, you can prevent the children from watching the program rated PG, PG-13, R, NC-17, and X in this case.

### \*Adjusting V-Chip Setting [Initial password of V-Chip Setting is fixed on 1111]

#### 1. TV Channel Blocking [TV Parental Guidelines]

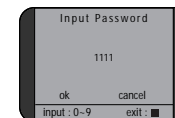


[1] Select "Setup" item and press VOL up(▶) button and press CH up/down(▲/▼) buttons to highlight "V-Chip Setting" item

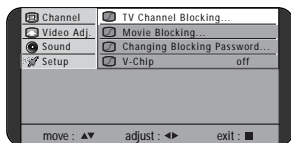


[2] Press VOL up/down(◀/▶) button to display the menu as left figure.

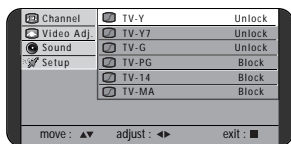
[3] Press VOL up/down (◀/▶) button to display as right figure. Input the password with digit button on the remote control. [Initial password : 1111]  
In Case you input incorrect password "Invalid Password Please Try Again" message will be displayed.



# Basic operations of the Remote control

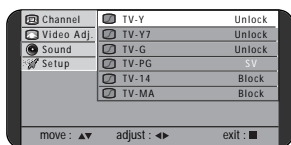


[4] Input the correct password(shown left), then press VOL up(▶) button for the next step.



[5] Press CH up/down (▲/▼) button to select rating and choose Block or other contents with VOL up/down(◀/▶) button.

Blocking TV-PG will automatically block higher ratings.



[6] Press MENU (■)button to return to the previous menu.

## 2. Movie Blocking [MPAA rating]

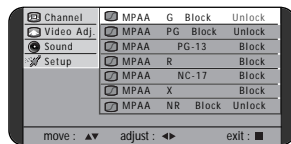
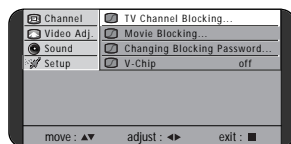
[1] Repeat steps [1]–[3] from TV Channel Blocking (page19)

[2] Select “Movie Blocking...” item with CH up/down (▲/▼) buttons, and press VOL up(▶) button for the next step.

[3] Press CH up/down (▲/▼) button to select rating and choose Block or Unlock with VOL up/down (◀/▶) button

If you select MPAA PG to Block, the higher ratings [from MPAA PG-13 to MPAA NR] are automatically blocked

[4] Press MENU (■)button to return to the previous menu.



# Basic operations of the Remote control

## 3. Changing Your Password

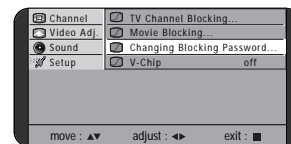
Initial password of V-Chip Setting is fixed on 1111, change the password if necessary.

[1] Repeat steps [1]–[3] from TV Channel Blocking (page19)

[2] Select “Changing Blocking Password...” with CH up/down (▲/▼) buttons, and press VOL up/down (◀/▶)button for the next step.

[3] Input your old password, then input your new password.  
A “Changing Password was Successfu” message will then appear.  
If you input an incorrect password, “Invalid Password. Please Try Again.” Message will appear.

\*If you forget the Password, input “5050” to initialize the password.



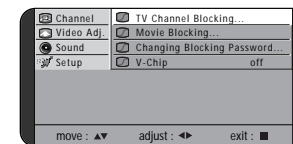
## 4. V-Chip on/off

[1] Repeat steps [1]–[3] from TV Channel Blocking (page19)

[2] Select “V-Chip Blocking” item. with CH up/down (▲/▼) buttons.

[3] Choose ‘on’ or ‘off’ with VOL up/down(◀/▶)buttons.  
Then V-Chip function does not work.

[4] Press MENU (■)button to previous menu.



# Basic operations of the Remote control

## \*Closed Caption

This function is a system displaying conversations, narration, and sound effects in TV programs and home videos as captions on the TV screen if broadcasting program or video offers the captions.

The Caption mode shows subscripts of dialogs and comments of TV dramas and news programs.

The Text mode displays various information over picture like TV program schedules and weather forecast.

The Caption broadcasts can be viewed in two modes, CAPTION, TEXT. CAPTION and TEXT modes have two channels for each, so CC1(Closed Caption1), CC2 (Closed Caption2), T1(Text1), T2(Text2) are available.

- You can select "Closed Caption" mode on the MENU also.

- In the Setup item, enter the "Closed Caption" with CH up/down (▲/▼) button and choose one among CC1, CC2, T1, T2, and off with VOL up/down (◀/▶) button, then press MENU (■) button to exit.

1. Press MENU(■) button and select "Setup" items.
2. Press VOL up(▶) button and highlight "Closed Caption" item with CH up/down(▲/▼) buttons.
3. Choose one mode among CC1, CC2, T1, T2 and off with VOL up/down (◀/▶) buttons.
4. Press MENU(■) button to return to previous menu.

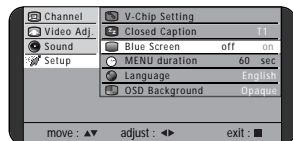
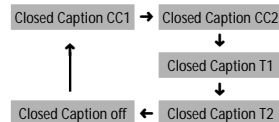
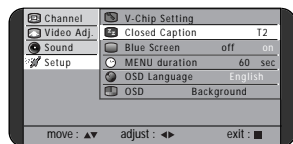
- You can change the Closed Caption mode directly in the order shown right by pressing CAPTION button on the remote controller.

## \* Blue Screen

There is no broadcasting signal in TV mode, the background picture turns to be blue.

1. Press MENU(■) button and select. "Setup" item with CH up/down (▲/▼) buttons.
2. Press VOL up(▶) button and select "Blue Screen" item with CH up/down (▲/▼) buttons.
3. Choose 'on' or 'off' with VOL up/down(◀/▶) buttons.
4. Press MENU(■) button to exit.

- This item will be displayed only in TV mode.  
In external input mode(VIDEO/S-VIDEO/COMPONENT), the background picture turns to be blue automatically in no signal.



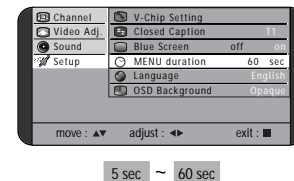
## \* MENU duration

This function sets the time of MENU displaying time.

You can display the menu box between 5 and 60 seconds.

Unless any button pressed in set time, the MENU disappears automatically.

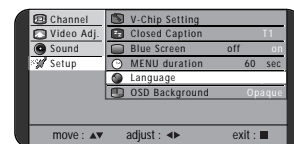
1. Press MENU(■) button and select. "Setup" item with CH up/down(▲/▼) buttons.
2. Press VOL up(▶) button and select "Menu duration" item with CH up/down (▲/▼) buttons.
3. Adjust the MENU duration time with VOL up/down(◀/▶) buttons.
4. Press MENU(■) button to exit.



## \* Language

The language for OSD can be English, French, Spanish or Korean

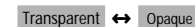
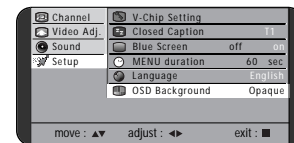
1. Press MENU(■) button and select. "Setup" item with CH up/down(▲/▼) buttons.
2. Press VOL up(▶) button and select "Language" item with CH up/down (▲/▼) buttons.
3. Select OSD language with VOL up/down (◀/▶) buttons.
4. Press MENU(■) button to exit.

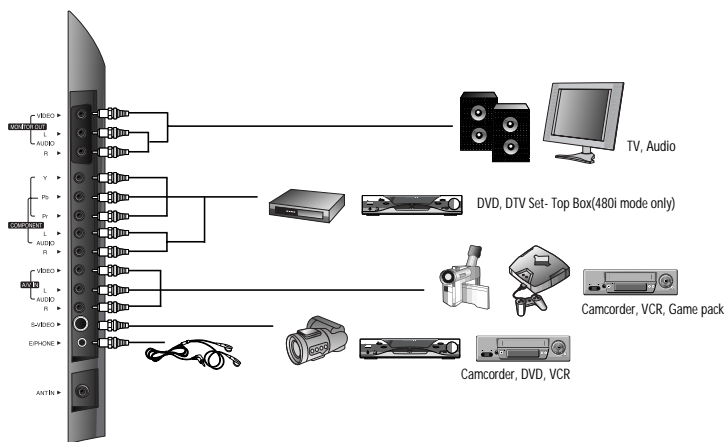


## \* OSD Background

You can choose the MENU Background to be Transparent or Opaque.

1. Press MENU(■) button and select. "Setup" item with CH up/down(▲/▼) buttons.
2. Press VOL up(▶) button and select "OSD Background" item with CH up/down (▲/▼) buttons.
3. Choose 'Transparent' or 'Opaque' with VOL up/down (◀/▶) button
4. Press MENU(■) button to exit.





Item		Function	Examples for connections
MONITOR OUT	VIDEO	Video signal output to the external equipment.	Connect to Vin on the external TV.
	L, R	Audio signal output to the external equipment.	Connect to L and R on the external TV or Audio system.
COMPONENT	Y	Component video signal input from the external equipment.	Connect to "Y" on the external DVD or Set-Top Box.
	Pb		Connect to "Pb" on the external DVD or Set-Top Box.
	Pr		Connect to "Pr" on the external DVD or Set-Top Box.
AUDIO IN	L, R	Audio signal input from the external equipment.	Connect to Lout & Rout on the DVD or Set-Top Box.
S-VIDEO		S-VIDEO signal input from the external equipment.	Connect to S-VIDEO on the external S-VIDEO output equipment.
A/V IN	VIDEO	Video signal input from the external equipment.	Connect to Vout on the VCR, Camcorder, or GAME EQUIPMENT.
	L, R	Audio signal input from the external equipment.	Connect to Aout (Lout & Rout) on the VCR, Camcorder, or GAME EQUIPMENT.

- If your VCR (or other external devices) has an S-Video terminal, S-Video connection is recommended because S-Video signal has the better quality than VIDEO signal of A/V IN.
- If your external device has Component terminal and S-Video terminal both, Component connection is recommended. Component video signal is superior to S-Video signal.
- The sound or image signals coming into COMPONENT or S-VIDEO will not be transmitted to MONITOR OUT terminals.
- S-VIDEO and VIDEO in AV IN share the same jack with AUDIO input. Thus, they can't be used at the same time.
- COMPONENT inputs accept only 480i video signal, so make the external equipment(DVD or DTV Set-Top Box) to 480i mode.

- Please check the following items before asking for repair service.

Symptom	Check items
Neither picture nor sound	<ul style="list-style-type: none"> <li>- Check the contact of sockets is all right.</li> <li>- Check the main power of the TV is turned on.</li> </ul>
Picture is OK, but no sound	<ul style="list-style-type: none"> <li>- Check the Volume control is set to minimum position or mute.</li> </ul>
Sound is OK, but no color.	<ul style="list-style-type: none"> <li>- Check the color control is set to the minimum position, if not adjust the color properly.</li> <li>- Check the program is in color or black &amp; white.</li> </ul>
The picture is overlapped image	<ul style="list-style-type: none"> <li>- Check the antenna is installed correctly, if not, adjust the antenna toward the broadcasting station.</li> <li>- Check the "Fine Tuning" is set up correctly, if not adjust the fine tuning properly.</li> </ul>
Picture has "snow noise"	<ul style="list-style-type: none"> <li>- Check the antenna or its connection is correct, if not, correct the antenna fault or connection cable fault.</li> <li>- Check there is interference from car traffic or neon signs.</li> </ul>
Stripes on picture	<ul style="list-style-type: none"> <li>- Check is interference by other electronic device, such as radio, television, etc. then keep magnetic or electronic devices away from the TV.</li> </ul>
Bad stereo or SAP sound.	<ul style="list-style-type: none"> <li>- Long distance from the station or other radio waves could cause bad sound reception, if so change the mode to Mono</li> </ul>
Remote control does not work	<ul style="list-style-type: none"> <li>- Check the batteries power in the Remote control are weak.</li> <li>- Check the objects blocking between IR sensor on the TV and the Remote control.</li> </ul>

# Specifications

## PRODUCT SPECIFICATIONS

ITEMS	SPECIFICATIONS	
HEIGHT	475mm(WITH STAND)	396mm(WITHOUT STAND)
WIDTH (HORIZONTAL)	608mm	
WIDTH (LATERAL)	206mm(WITH STAND)	65mm(WITHOUT STAND)
WEIGHT(NET)	9.7kg(WITH STAND) 7.9kg(WITHOUT STAND)	
INPUT POWER	AC 100-240V, 50/60Hz	
POWER CONSUMPTION	65 WATTS	
SOUND OUTPUT	2.5WATTSx2 / 8ohm	
DISPLAY	20.1" TFT LCD PANEL	
NUMBER OF DOTS	921,600 DOTS (VGA : 640 X 480 X 3)	
BRIGHTNESS	450cd/m <sup>2</sup>	
VIEWING ANGLES	H : 140°, V : 120°	
SYSTEM	NTSC-M	
TUNING SYSTEM	Electric tuning system with PLL (181 CHANNEL)	
EXTERNAL INPUT / OUTPUT	AV-IN (VIDEO / AUDIO L & R INPUT)	
	COMPONENT ( Y, Pb, Pr, INPUT )	
	AUDIO IN (AUDIO L & R INPUT )	
	MONITOR OUT (VIDEO / AUDIO L & R OUTPUT)	
	S-VIDEO INPUT	
ACCESSORIES	EARPHONE (3.5ø STEREO MINI-JACK)	
	REMOTE CONTROL, BATTERIES (AAA TYPE 2X), AC POWER CORD.	

\* Design and specifications are subject to change without notice.

## LIMITED WARRANTY- ELECTRONICS

Petters Consumer Brands, LLC (PCB) warrants this Product (including any accessories) against defects in material or workmanship as follows:

1. LABOR: For a period of 1 year from date of purchase, if this Product is determined to be defective, PCB will repair or replace the Product, at its option, at no charge to the customer, or pay the labor charges to any PCB authorized service facility. After the warranty period, you must pay for all labor charges.
2. PARTS: In addition, PCB will supply, at no charge to the customer, new or rebuilt replacements in exchange for defective parts for a period of 1 year from date of purchase.  
After the warranty period, you must pay for all parts costs.
3. ACCESSORIES: Parts and labor for all accessories are for 1 year from date of purchase.

To obtain warranty service, visit our website at [www.polaroidelectronics.com](http://www.polaroidelectronics.com) or in the US call 1-(866) 289-5168 and in Canada call 1-866-301-7922.

This Warranty does not cover customer instruction, installation, set-up, adjustments or signal reception problems.

This Warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product, including the antenna. This warranty does not cover products sold AS IS or WITH ALL FAULTS, or consumables (such as fuses or batteries). This Warranty is valid only in the United States and in Canada.

Proof of purchase in the form of a bill of sale or receipted invoice, which is evidence that the unit is within the Warranty period, MUST be presented to obtain service.

This Warranty is invalid if the factory-applied serial number has been altered or removed from the Product.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. PETTERS CONSUMER BRANDS, LLC AND POLAROID CORPORATION WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITABLE BY LAW, ANY APPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract with the Petters Consumer Brands, LLC Partnership within 90 days of sale, the limitation on how long an implied warranty lasts does not apply to you. This Warranty gives you specific rights, and you may have other rights, which vary from state to state.

To locate the servicer or dealer nearest you, or for service assistance or resolution of a service problem, or for product information or operation:

**Electronics Consumer Care Center**  
[www.polaroidelectronics.com](http://www.polaroidelectronics.com)  
 in the US call 1-866-289-5168  
 in Canada call 1-866-301-7922

CUSTOMER'S RECORD  
 (retain for your records)

Date of Purchase \_\_\_\_\_ Store/Dealer \_\_\_\_\_

Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_

Important Keep all original product packaging materials and a **copy of original receipt** in the event that your product needs service.

## GARANTIE LIMITEE - EQUIPEMENTS ELECTRONIQUES

Petters Consumer Brands, LLC (PCB) garantit ce produit (y compris tous les accessoires) contre les vices de matériaux et de fabrication dans les conditions suivantes:

1. MAIN-D'OEUVRE : Pendant une période d'un an à compter de la date d'achat, si ce produit s'avère défectueux, PCB répare ou remplace le produit, à sa discrétion, sans frais pour l'acheteur ou prend en charge le coût de la main-d'œuvre de tout établissement agréé par PCB. Après expiration de la période de garantie, l'acheteur assume le coût de toute main-d'œuvre.
2. PIÈCES: En outre, PCB fournit, sans frais pour l'acheteur, des pièces de rechange neuves ou réusinées, en échange des pièces défectueuses pendant une période d'un an à compter de la date d'achat. L'acheteur assume les frais d'expédition encourus pour l'envoi de l'unité au centre d'entretien agréé. Après expiration de la période de garantie, l'acheteur assume le coût de toute pièce de rechange.

Pour obtenir une prestation de garantie, visiter le site Internet à [www.polaroidelectronics.com](http://www.polaroidelectronics.com) ou appeler le 1-866-289-5168 aux États-Unis ou le 1-866-301-7922 au Canada.

Cette garantie ne couvre pas la formation de l'acheteur, les problèmes d'installation, de configuration, de réglage ou de réception du signal.

Cette garantie ne couvre pas les dommages esthétiques ou les dommages résultant de cas fortuits, d'accidents, de mauvaise utilisation, d'abus, de négligence, d'une utilisation commerciale, d'une modification de toute pièce du produit, y compris l'antenne. Cette garantie ne couvre pas les produits vendus EN L'ÉTAT ou SANS GARANTIE QU'ILS SONT EXEMPTS DE DÉFAUT ou les consommables (tels que les fusibles ou les piles). Cette garantie n'est valable qu'aux États-Unis et Canada.

Une preuve d'achat sous la forme d'un acte de vente ou d'une facture acquittée, prouvant que la période de garantie n'est pas expirée, DOIT être présentée pour bénéficier du service de garantie.

Cette garantie est nulle si le numéro de série apposé en usine a été altéré ou retiré du produit.

LA RÉPARATION OU LE REMPLACEMENT TELS QU'ASSURÉS PAR CETTE GARANTIE CONSTITUENT LE RECOURS EXCLUSIF DE L'ACHETEUR. PETTERS CONSUMER BRANDS, LLC ET POLAROID CORPORATION N'EST PAS RESPONSABLE DE TOUT DOMMAGE ACCESSOIRE OU INDIRECT CONSÉCUTIF AU NON-RESPECT DE TOUTE GARANTIE EXPRESSE OU TACITE DE CE PRODUIT. À L'EXCEPTION DES CAS LÉGALEMENT INTERDITS, L'APPLICATION DE TOUTE GARANTIE DE QUALITÉ MARCHANDE OU D'APTITUDE À UNE UTILISATION PARTICULIÈRE DE CE PRODUIT EST LIMITÉE À LA DURÉE DE CETTE GARANTIE.

Certains états n'autorisent pas l'exclusion ou la limitation de garantie des dommages accessoires ou indirects ou permettent des limitations de la durée d'une garantie tacite de sorte que les limitations et les exclusions ci-dessus peuvent ne pas s'appliquer. En outre, si l'acheteur souscrit un contrat d'entretien avec le partenariat PCB dans les 90 jours de la vente, la limitation relative à la durée de la garantie tacite cesse de s'appliquer. Cette garantie accorde à l'acheteur des droits particuliers et d'autres droits, variant d'un état à l'autre, peuvent s'appliquer.

Pour trouver le centre d'entretien ou le distributeur le plus proche ou pour toute assistance ou résolution d'un problème d'entretien ou pour obtenir des informations complémentaires concernant le produit et son fonctionnement:

### Centre de Service à la Clientèle de Electronics

[www.polaroidelectronics.com](http://www.polaroidelectronics.com)

Aux États-Unis, appeler le: 1-866-289-5168

Au Canada, appeler le: 1-866-301-7922

3110 Crossing Park Rd, Norcross GA 30071

### DOCUMENT DU CLIENT (à conserver pour vos archives)

Date d'achat \_\_\_\_\_ Magasin/Distributeur \_\_\_\_\_

N° du modèle \_\_\_\_\_ N° de série \_\_\_\_\_

**Important** Conserver tous les matériaux de l'emballage original du produit et une copie du reçu d'origine dans l'éventualité d'une réparation du produit.

## GARANTÍA LIMITADA-PRODUCTOS ELECTRÓNICOS

Petters Consumer Brands, LLC ("PCB") garantiza este producto (incluyendo cualquier accesorio) contra defectos en sus materiales o en su fabricación según los términos siguientes:

1. MANO DE OBRA: Si se determina que este producto está defectuoso, durante un periodo de un año posterior a la fecha de compra PCB tendrá la opción de repararlo o reemplazarlo sin costo alguno para el cliente, o pagar los gastos de mano de obra a cualquier centro de reparaciones autorizado por PCB. Una vez que el periodo de garantía haya expirado, los gastos de mano de obra son responsabilidad del cliente.
2. PIEZAS DE REPUESTO: Durante un periodo de un año a partir de la fecha de compra, PCB proveerá además, sin costo alguno para el cliente, piezas de repuesto nuevas o reconstruidas a cambio de las piezas defectuosas. Los gastos de envío para hacer llegar las piezas al centro de reparaciones autorizado correrán por cuenta del cliente.

Una vez que el periodo de garantía haya expirado, el cliente deberá pagar el costo de todas las piezas de repuesto.

Para obtener servicio de garantía, visite nuestro sitio en Internet, [www.polaroidelectronics.com](http://www.polaroidelectronics.com) o, en los Estados Unidos llame al 1-866-289-5168; en Canadá, llame al 1-866-301-7922.

Esta garantía no cubre los costos de instrucción al cliente, instalación, configuración, ajustes o problemas con la recepción de la señal.

Esta garantía no cubre daños que alteren la estética del equipo o daños fortuitos causados por las fuerzas de la naturaleza; tampoco los debidos a uso erróneo, accidentes, abuso, negligencia, ni aquellos causados por uso comercial o por la modificación del producto mismo o cualquiera de sus partes, incluyendo la antena. Esta garantía no cubre los productos vendidos "tal como se ven" o "co n todos sus defectos" , ni tampoco los productos con sumibles tales como fusibles o baterías.

Esta garantía es válida únicamente en los Estados Unidos y Canadá.

Para obtener servicio se DEBE presentar una prueba de compra, tal como una factura o recibo, con la cual se demuestre que la unidad se encuentra dentro del periodo de cobertura de la garantía.

Esta garantía se invalida si el número de serie asignado en fábrica al producto se ha modificado o extraído.

LAS REPARACIONES O CAMBIOS PROVISTOS BAJO ESTA GARANTÍA CONSTITUYEN LA ÚNICA SOLUCIÓN JURÍDICA PARA EL CLIENTE. PETTERS CONSUMER BRANDS, LLC Y POLAROID CORPORATION NO SE HARÁ RESPONSABLE DE CUALQUIER DAÑO CONSECUENTE O INCIDENTAL DEBIDO AL INCUMPLIMIENTO DE CUALQUIER GARANTÍA EXPLÍCITA O IMPLÍCITA DE ESTE PRODUCTO. EXCEPTO EN LA MEDIDA EN QUE LA LEY LO PROHIBA, CUALQUIER GARANTÍA DE ESTE PRODUCTO QUE SE APLIQUE A SU MERCANTILIDAD O IDEONIDAD PARA UN FIN ESPECÍFICO QUEDA LIMITADA A LA DURACIÓN DE ESTA GARANTÍA.

Algunos estados no permiten la exclusión o limitación por daños consecuentes o incidentales ni permiten que existan limitaciones respecto a la duración de una garantía implícita, de manera que es posible que las limitaciones o exclusiones mencionadas no se apliquen en su caso. Por otra parte, la limitación de la duración de la garantía implícita no se aplica si el cliente ha establecido un contrato de mantenimiento con "PCB Partnersh" menos de 90 días después de la fecha de compra. Para esta garantía le confiere al cliente derechos legales específicos pero, dependiendo del estado en cuestión, puede tener otros derechos adicionales.

Para localizar el centro de reparaciones o de ventas más cercano, para obtener ayuda en una reparación o en la resolución de un problema relacionado a ella, o para obtener información acerca del producto o de su funcionamiento:

### Centro de atención al cliente del departamento de electrónica

[www.polaroidelectronics.com](http://www.polaroidelectronics.com)

En los Estados Unidos, llamar al: 1-866-289-5168

En Canadá, llamar al: 1-866-301-7922

3110 Crossing Park Rd, Norcross GA 30071

### DATOS DEL PRODUCTO (el cliente debe guardarlo para sus archivos)

Fecha de compra \_\_\_\_\_ Tienda donde se compró \_\_\_\_\_

N° de modelo \_\_\_\_\_ N° de serie \_\_\_\_\_

**Importante** Guardar todo el material de empaque original y una copia de la factura original del producto por si éste necesita ser reparado.